

IN THE CLAIMS:

1. (Currently Amended) An apparatus for playing back an optical disc which includes at least one audio/video data storage area which contains at least one audio title set or video title set, at least one title set management information storage area which contains audio/video sequence information indicating a playback order of prescribed pieces of audio/video data constituting an audio/video sequence, and object position information indicating positions of the audio/video data on the optical disc, and at least one disc management information storage area which contains disc management information for managing the whole disc, including title set position information indicating a position of the title set on the optical disc,

said playback apparatus comprising:

reading means for reading ~~the~~ audio/video data, the audio/video sequence information, ~~the~~ object position information, the title set position information, and ~~the~~ disc management information from ~~the~~ an optical disc, to play back the read data;

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control means for controlling the reading means;

storage means ~~which contain the~~ for storing disc management information ~~obtained~~ read from the at least one disc management information storage area;—and

external input receiving means for receiving an external input for disc management information selected by a user among plural kinds of ~~the~~ disc management information obtained from the at least one disc management information storage area, area;

first judging means for determining whether or not plural kinds of disc management information are contained in the storage means; and

second judging means for determining whether or not one of plural kinds of disc management information has been selected by the external input receiving means when the first judging means determines that plural kinds of disc management information are stored in the storage means, wherein

the control means ~~control~~ is for controlling the reading means ~~so as to read the~~ audio/video sequence information, the object position information, the title set position information and ~~the~~ disc management information from ~~the~~ an optical disc, to

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play back ~~the~~ audio/video data successively in accordance with ~~the~~ disc management information, ~~the~~ title set position information, ~~the~~ audio/video sequence information and ~~the~~ object position information, and

when means for receiving an instruction for selecting one of the plural kinds of disc management information is given, the control means select the is for selecting disc management information in accordance with the said instruction, and perform for performing control so as to play back the audio data or video data on the basis of the title set position information included in the selected disc management information, the sequence information, and the object position information. information, when the first judging means determines that plural kinds of disc management information are contained in the storage means and an instruction for selecting one of plural kinds of disc management information has been received.

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2. (Currently Amended) An apparatus for playing back an optical disc in which at least one audio title set or video title set, audio disc management information and video disc management information for respectively managing whole titles in the audio title set or video title set, audio/video sequence information, object position information, and title set position information are ~~stored in the medium,~~ stored, the apparatus comprising:

a buffer memory;

information reading means for reading ~~the~~ audio title set or video title set, ~~the~~ audio disc management information, ~~the~~ video disc management information, ~~the~~ audio/video sequence information, ~~the~~ object position information and ~~the~~ title set position information from ~~the~~ an optical disc, and storing ~~the~~ audio/video sequence information, ~~the~~ object position information, and ~~the~~ title set position information in ~~a~~ the buffer memory;

~~storing~~ storage means ~~which contain the~~ for storing read audio disc management information and video disc management information, ~~respectively;~~

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external input receiving means for receiving an external input ~~for comprising~~ disc management information which is stored and means for storing said disc management information in the storage means and selected means, wherein said stored disc management information is selectable by a user; and

first judging means for determining whether or not disc management information has been switched to either audio disc management information or video disc management information by the external input receiving means when the first judging means determines that audio disc management information and video disc management information are stored in the storage means; and

control means for controlling the information reading means ~~so as to read for reading~~ required audio data or video data from the an optical disc on the basis of one of the audio disc management information and video disc management information selected by the external input receiving means, to play back the read data when the second judging means determines that disc management information has been switched to either audio disc management information or video disc management information by the external input receiving means.

3. (Currently Amended) The optical disc playback apparatus of Claim 2 wherein

said control means ~~control~~ is for controlling the reading means ~~so as to~~ play back audio or video data on the basis of the title set position information indicating a position of a title set included in the selected audio disc management information or video disc management information, the sequence information stored in the buffer memory which indicates a playback order of the audio or video data, and the object position information indicating positions of the audio or video data on the an optical disc.

4. (Currently Amended) A method for playing back an optical disc in which at least one audio title set or video title set, audio disc management information and video disc management information for respectively managing titles in the audio title set or video title set, audio/video sequence information, object position information, and title set position information are stored in the medium, ~~comprising steps of:~~

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reading ~~the~~ an audio title set or a video title set, the audio disc management information, ~~the~~ video disc management information, ~~the~~ audio/video sequence information, ~~the~~ object position information and ~~the~~ title set position information from ~~the~~ an optical disc;

storing the read audio disc management information and video disc management information, ~~respectively~~;

judging whether or not both audio disc management information and video disc management information have been stored by the storing step;

receiving ~~an~~ external input ~~for~~ comprising disc management information selected by a user among ~~the~~ stored audio disc management information and video disc management information; and

judging whether or not disc management information has been switched to either audio disc management information or video disc management information by receiving external input when said judging determines that both audio disc management information and video disc management information are stored;  
and

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reading required audio data or video data from ~~the~~an optical disc on the basis of ~~the~~ audio disc management information or video disc management information selected in accordance with a selection instruction signal which is input from outside, and playing back ~~the data~~ read data, when said receiving external input determines that disc management information has been switched to either audio disc management information or video disc management information.

5. (Currently Amended) An optical disc playback apparatus for playing back data ~~which are recorded~~ on an optical disc having a physical layer specifying a physical structure, a file layer specifying a data file structure and at least two application layers specifying application structures ~~disposed~~ located on the a common physical layer and file layer, the apparatus comprising:

information reading means for reading ~~respective management~~ information in ~~the plural~~ at least two application layers, and data, sequence information, object position information and title set position information included in applications;



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storage means ~~which contain the~~ for storing plural  
management information read by the information reading means;

first judging means for determining whether or not plural  
management information are stored in the storage means;

selection means for selecting desired management  
information among ~~the plural~~ management information stored in  
the storage means, in accordance with a selection by a user; and

second judging means for determining whether or not one of  
plural management information has been selected by the selection  
means when the first judging means determines that plural  
management information are stored in the storage means; and

control means for controlling the information reading means  
~~so as to read required data from the~~ an optical disc on the  
basis of the desired management information selected by the  
selection means and ~~play for playing back the~~ read data when the  
second judging means determines that one of the plural  
management information has been selected.